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DPU0Series(17Phase)^{圳 0510-81157933江}苑資italPowerThyristor Unit

DPU series realizes user's optimal convenience by increasing stability of SCR Unit and removing noise of electrical furnace.

Features

- Precise feedback (static current, static voltage, static power) by measuring RMS value.
- Adoption of phase control and zero-crossing cycle control (fixed cycle, variable cycle) for various load.
- Multi input for control input signal(current, voltage, potentionmeter, etc).
- Includes customized 6 digital inputs(Event input).
- Various alarm output including current error, heater disconnection etc.
- Indicating various setup, input/output by 7 segment and BAR LED.
- MODBUS RTU protocol by RS485 communication.

Ordering codes

		_		
	Option	R	RS485	
DPU 1 2 A - 025 R		D	Remote Display Unit	
		A	Remote Display Unit + RS485	
		Ν	None	
	Rating current	Туре	Single phase	
		025	25A	
		040	40A	
		050	50A	
		070	70A	
		080	80A	
		100	100A	
		120	120A	
		150	150A	
	capacity	180	180A	
	(A)	200	200A	
		250	250A	
		350	350A	
		400	400A	
		500	500A	
		600	600A	
		750	750A (Others)	
		950	950A (Others)	
	Size (in case of 1-phase)	Туре	Single phase	
		Α	0~70A	
		В	80~200A	
		С	250~350A	
	i-priase)	D	400~600A	
		Е	Option	
		1	110V	
	Power	2	220V	
	voltage	3	380V	
	_	4	440V	
	The number of phase	1	Single phase	
	Series	DPU	DIGITAL POWER CONTROLLER UNIT	

Specifications

Model	DPU series	
The number of phase	Single phase	
Power voltage	110VAC/220VAC/380VAC/440VAC (The extra power supply for fan operation is unnecessary)	
Allowable voltage range	±10% of rating voltage	
Rating frequency	50/60Hz(Automatic recognition), Allowable frequency range : ± 2 Hz(performance is guaranteed as ± 1 Hz)	
Size	Refer to Dimension diagram	
Min. load current	1A	
Output range	Phase control : 0~98%, ZC control : 0~100%	
Control type	Phase control : NORMAL control(NON-FEEDBACK), Static voltage/Static current/Static power control (FEED BACK) CYCLE control(ZC) : fixed cycle control, variable cycle control ON/OFF Control(ZC)	

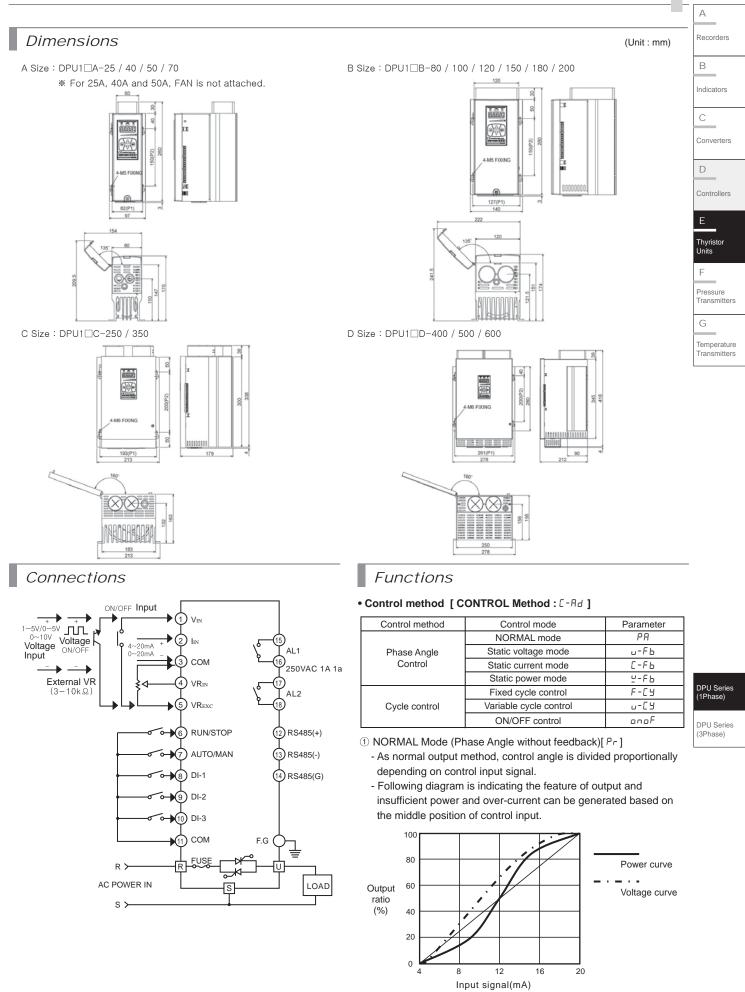


Load	Phase control : Resistance load, Inductive load ON/OFF, CYCLE control : Resistance load		
Power consumption	Under 7VA (Except for power supply for fan operation)		
Indicating type	Display the indicating value and setting value : 7 segment 4 row, Display the status : 4 LED Display the percentage of the indicating value : 11 LED BAR		
Output accuracy	Static voltage feedback control : within ±3.0% F.S of rating voltage (within ±10% F.S fluctuation of rating voltage (within ±10% F.S fluctuation of rating voltage (within 1~10 times fluctuation of load resistance • Static power feedback control : within ±3.0% F.S of rating voltage (within ±10%F.S fluctuation of rating voltage and within ±3.0% F.S o rating voltage(within 1~10 times fluctuation of load resistance • NORMAL control : within ±10% F.S of rating voltage		
Setting method	Set by key or communication		
Control input	AUTO : DC4-20mA / DC0-20mA / 0-5VDC / 1-5VDC / 0-10VDC / voltage pulse (0-12VDC) / None of voltage input / communication input(RS485) MAN : internal 10kΩ VR, external 3~10kΩ VR(over 2W)		
Digital input (DI)	AUTO/MAN conversion, RUN/STOP conversion, RESET, Holding output, designate SP(SP1~6)		
Indicating type	Control input, power frequency, load voltage, load current, load power, load resistance		
Min. indicating output	Over 2.5% of rated voltage/current		
Main function	SOFT START(100 sec.), SLOW UP/DOWN(100 sec.), output High/Low limit, current limit, starting limit, BASE-UP		
Alarm function	Over current alarm, current alarm, over voltage alarm, fuse disconnection alarm, abnormal heatsink alarm, abnormal element alarm, heater disconnection alarm		
Other functions	Selecting the indicating content on display, selecting the indicating content on bar graph, indicating FULL load,lock function, user-correction function(ZERO/slope), selecting the indicating direction of load resistance		
Optional function	RS485 MODBUS		
Dielectric strength	200VAC 50/60Hz for 1 minute (between input terminal and power terminal)		
Vibration resistance	0.75mm amplitude at frequency of 5~55Hz in each of X, Y, Z directions for 2 hours		
Isolation resistance	Min. 200M Ω (500VDC mega STD)		
Noise resistance	±2kV the square wave noise (pulse width:1µs) by the noise simulator		
Ambient temperature	-10~50°C (at non-freezing status)		
Storage temperature	-20~80°C (at non-freezing status)		
Ambient humidity	5~90% RH		
Weight	A Type : 3kg, B Type : 5.5kg, C Type : 11kg, D Type : 15.5kg		



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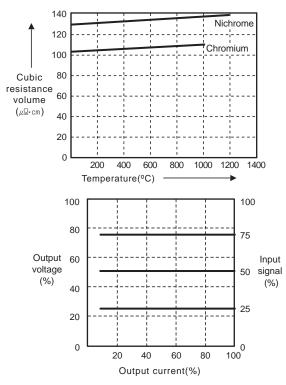
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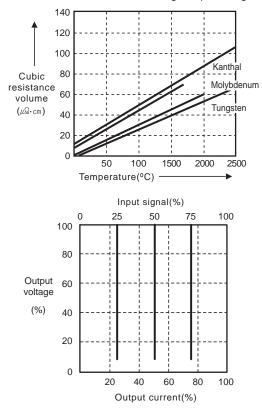
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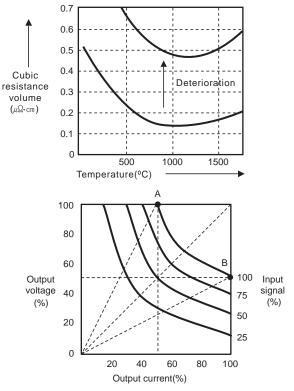
Static voltage Mode (Voltage-Feedback)[u-Fb]
 As temperature coefficient of electric resistance is short of load (iron, chromium, nichrome, etc.), Static voltage Mode outputs regular voltage of being in proportion to control input for load resistance fluctuation so as not to change output voltage.



- ③ Static current Mode (Current-Feedback) [[-Fb]
- As temperature coefficient of electric resistance is load (iron, chromium, nichrome, etc.), largely changed as 6~12 times by standardizing normal temperature, Static voltage Mode outputs regular voltage of being in proportion to control input for load resistance fluctuation so as not to change output voltage.

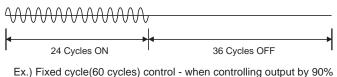


- (4) Static power Mode (Electric powr-Feedback) [<u><u>u</u>-Fb]</u>
- If Load is SIC heating element, as load which generates resistance change by heat and resistance change by age change, it outputs regular power which is not affected by resistance load and in proportion to control input.



- Output feature is equivalent to 50% of output of connecting curve between the point(A) of [output voltage 100% x output current 50%] and the point(B) of [output voltage 50% x output current 100%], and current output capacity of this unit should be selected as twice of load capacity.
- (5) Fixed cycle control (Burst firing with fixed time base)[F-[Y]
- It controls power supplied to load by reiterating ON/OFF cycle as below by regular ratio according to control input signal for regular cycle(60 cycles).

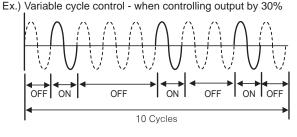
Ex.) Fixed cycle(60 cycles) control - when controlling output by 40%





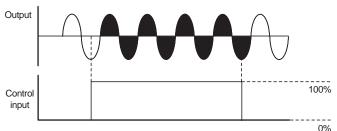
(6) Variable cycle control (Burst firing with variable time base)[u-E J]
 It controls requiring power depending on control input signal by using the number of minimum cycle of AC Sine wave and optimizes temperature change of objective control.

6 Cycles OFF



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⑦ ON/OFF control type [םהם F] - Zero-Cross Switching
 When control input is OFF, output is OFF(0%) / When control input is ON, output is ON(100%) (Same as SSR)

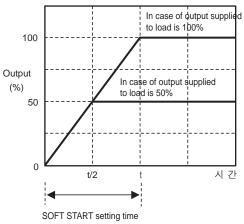


• SOFT START function [5E-E]

- When supplying power, it sets time to protect load by output increased groclually within setting time. Controlling load with flowing inrush current(platinum, molybdenum, tungsten, infrared lamp, etc.) or control input is changed rapidly.
- SOFT START function is operating by Phase control regardless of control method(phase control, cycle control).
- SOFT START function is setting time which is reaching up to 0~100% of output.
- Setting range of SOFT START : 0 ~ 100sec. (0sec : do not use SOFT START function).
- SOFT START function is operated as only following condition. : When operating as at STOP after POWER ON and RESET
- SOFT START function is not operated when objective output is 0% (control input is 0%).
- SOFT START function is terminated if reaching to objective output value.
- SOFT START setting time t means the time of till output supplied to load increased to 100% and time for reaching is t/2 in case of final objective output value 50%.
- Final objective output value reaching time = objective output(%) x t.
- Ex) SOFT START time : 25 sec.

Final objective output : 80



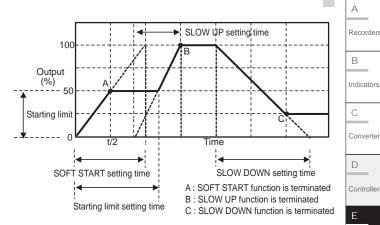


\bullet Starting limit [5-L \bar{n}] and time of Starting limit

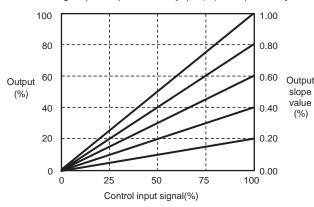
[time of Starting limiter: 5-LE]

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- Starting limit function sets limit output and time protecting from inrush current when STOP is converted to RUN, alarm RESET after Power-on.
 Starting limit function is operating by Phase control regardless of
- control method(phase control, cycle control).
- Setting range of Starting limit : 0 ~ 100% of output
- Setting range of Starting limit time : 0 ~ 100sec.
 (but, when setting as 0sec, starting limit is not used).

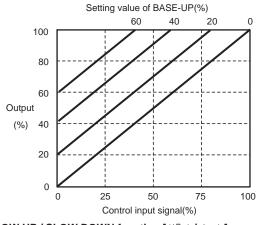


- Setting output slope function [OUTPUT SLOPE: 51 aP] - This function is to set fluctuating ratio of output depending on
- control input in range of 0.00~1.00.
- When setting slope, output value is [input(%) X slope value].



• BASE-UP function [Base-up setting : b-UP]

- BASE-UP function is adding BASE
- UP setting value to input signal.
- The range of BASE-UP setting value is BASE-UP setting value < High output limit value.
- BASE-UP setting value is possible for setting when only output Low limit value is 0%. In case of output limit value is set to voluntary value, BASE-UP function parameter [B-UP] is not indicated.
- When initial operation, it is restricted by starting limit value.
- When setting BASE-UP, output is
- [input(%) X slope value + BASE-UP setting value].



- SLOW UP / SLOW DOWN function [UP-E/dn-E]
- As this function has same purpose with SOFT START function, it is, when initial operation, operating once but SLOW UP / SLOW DOWN function is operating during RUN.
- SLOW UP / SLOW DOWN function is operating by Phase control regardless of control method(phase control, cycle control) as like SOFT START function.

E-4

DPU Series

(1Phase)

Thyristo Units

Pressure

Transmitter

Temperature

Fransmitters

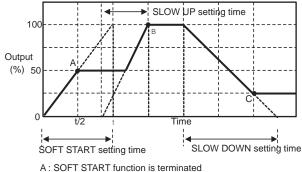
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- SLOW UP / SLOW DOWN function is terminated if reaching to objective output value.

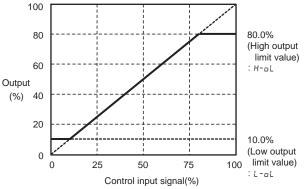
- Setting range of SLOW UP / SLOW DOWN : 0 ~ 100sec. (0sec : do not use SLOW UP / SLOW DOWN function).



B : SLOW UP function is terminated

C : SLOW DOWN function is terminated

- High / Low output limit restricting function [High-output limit restricting value (HIGH- OUTPUT LIMIT : H-oL), Low-output limit restricting value(LOW-OUTPUT LIMIT :), Low-output limit restricting value(LOW-OUTPUT LIMIT : L-oL)]
- High / Low output limit restricting function is for protecting load by restricting the range of output.
- Setting range : 0% Low-output limit restricting value < High-output limit restricting value 100%



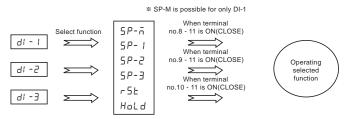
• DI (Digital Input) function

- It is possible for operating below functions by using terminal input.
- Digital input has the total of 5 terminals as Auto/Manual terminal, Run/Stop terminal, DI-1 ~ DI-3.
- DI-1 ~ DI-3 are able to select function for each input terminal.
- DIGITAL INPUT for selecting Auto/ Manual [No.7 - 11 terminal]
- Select Auto(CLOSE) / Manual(OPEN) by terminal input.
- Auto Mode accepts analog input (voltage, current) and ON/OFF (including SSR pulse input) to control input and is controlled to output of instrument according to control input.

each input terminal.		
6	→	
7	←0	
8	←───○	>
9	←───○	>
10	←0	>
11		COM

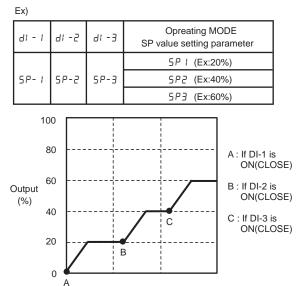
- Manual Mode accepts internal manual volume or external manual volume to control input and controlled to output of instrument according to control of manual volume.
- When Auto(CLOSE), front Auto lamp is turned on. When Manual(OPEN), Auto lamp is turned off.
- (2) Conversion of Run / Stop DIGITAL INPUT (Terminal no. 6 11)
 - Run(CLOSE) / Stop(OPEN) operation by terminal input
 Run Mode is that instrument is operated by control input as set
 - contents and Stop Mode is that instrument is on standby. - When Run(CLOSE), front Run lamp is turned on.
 - When Stop(OPEN), Run lamp is turned off.

- ③ DI-1 ~ DI-3 (DIGITAL INPUT no.1~3) terminal [no.8, 9, 10 - 11(COM)terminal]
 - For each DIGITAL INPUT, it could be set by using parameter (DI-1, DI-2, DI-3) and selecting function separately.
 - When DI input is ON(CLOSE), front EVT lamp is turned on. When it is OFF(OPEN), EVT lamp is turned off.
 - It can be selected 6 functions as follows



- RESET function [-5]
- After selecting RESET function and suitable Digital Input is ON(CLOSE) and if OFF, instrument will be reactivated after RESET.
 HOLD function [HoLd]
- After selecting HOLD function and if suitable Digital Input is ON(CLOSE), output and indicating value of instrument will be holded. (When Digital Input is stayed by ON(CLOSE) only, HOLD will be operated)
- Single SP function [5P-1, 5P-2, 5P-3]
- Single SP function designate 5P-1, 5P-2, 5P-3 for each Digital Input and output is reaching to suitable SP.
- It is possible for setting on each dl 1, dl 2, dl 3 and dual setting is possible as well and if 5P-1 is designated, 5P 1 / if 5P-2 is designated, 5P2 / if 5P-3 is designated, 5P3 will be indicated on each Operating MODE.

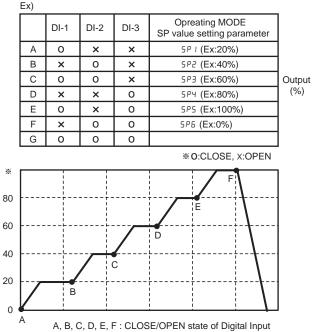
Namely, if it is not designated, it will not indicate SP value setting parameter on Operating MODE.



- Multi SP function [5P-6]
- Multi SP function can set the amount of 6 SPs and control output according to the 3 Digital Input contents.
- Multi SP function can only be selected on DI-1 and if selecting SP-M in DI-1, DI-2 and DI-3 parameter are not indicated.
- \cdot If selecting SP-M on DI-1, 6 parameters which are able to set will be generated on Operating Mode.
- (SP 1, SP 2, SP 3, SP 4, SP 5, SP 6)

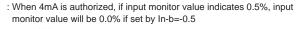
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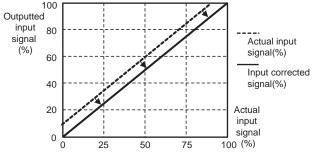
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Set proportion and Integral constant of Feed Back control

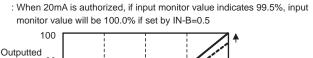
- Proportional Integral Control : It is proportional control added to integral control. Proportional control accomplishes soft control without overshoot or hunting about setting value, and integral control is to reach stably to setting value by revising offset automatically.
- This instrument is set proportional constant and integral constant to optimum value when shipped. If user would like to change proportional constant and integral constant voluntarily and if using Feedback control, it will be possible for generating overshooting or huntina.
- ① Set proportional constant [P]
- It compensates tolerance for objective value proportionally.
- Setting range : 0(0%) ~ 2000(100%)
- Overshooting or hunting will be generated if setting small proportional constant value, and if setting large proportional constant value, the response will be slow.
- 2 Set integral constant [/]
- It compensates accumulated tolerance for objective value proportionally.
- Integral constant set as time is the same time both proportional volume and integral volume.
- Setting range : 0.1 ~ 999.9 sec.
- Overshooting or hunting will be generated if setting small integral constant value, and if setting large integral constant value, the response will be slow.
- * Above P, I parameter is indicated only if control mode controls Feed Back control. • Input compensation[INPUT BIAS : / n-b]
- Input compensation function is compensating OFFSET of both actual
- input value and measured input value. - Input compensation setting range : -99.9 ~ 99.9%
- Ex) If the type of input is 4-20mA

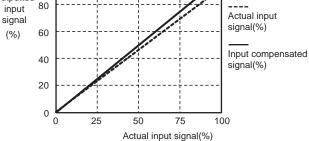




- Correction of Input slope [SPAN : 5PRn]
- It corrects Gain for measured 100% input about actual 100% input value.
- Setting range of input slope correction : -99.9% ~ 99.9%

Ex) If the type of input is 4~20mA







- Can set indicating value contents of display on operating mode.
- Selected possible indicating contents : load voltage[Ld-u], load current[Ld-R], power[L'], control input[-EF]
- BAR GRAPH's display selected contents

[Bar graph's content : 68r]

- Able to select contents which BAR GRAPH indicates.
- Selected possible indicating contents : load voltage[L d-u], load current[Ld-R], power[L], control input[-EF]
- Selecting load resistance indicated direction function[dr E5]
- When monitoring load resistance value on Monitoring Mode, this function is to select indicating by increased direction or decreased direction for load resistance value be monitoring.
- * Refer to 9-24. Heater disconnected alarm.
- Automatic recognized full load function [F-Ld]
- This function is to recognize 0~100% about connected load.
- If press M key after selecting on at Setting Mode 1 group, load automatic recognition will be operated.
- In need of regular performance according to the change of passing vear of load.
- *When automatic recognition, it is operating by 100% output for approx. 3sec.
- Lock parameter function [LoCE]
- This function is to restrict check and change for setting value of parameter.

	oFF	Lo[I	Lo[2	Lo[]
Operating Mode Setting group		•		•
Setting Mode 2 Setting group		•	•	•
Setting Mode 1 Setting group		Ð	0	0

- Possible for check and setting,
- C:Possible for check / Impossible for setting,

DPU Series 1 Phase

А

В

С

D

Е

F

G

Thyristor Units

Pressure

Transmitter

Temperature

Transmitters

Recorders

Indicators

Converter

Controllers

- DPU Serie: (3Phase)
- : Impossible for check - Lock parameter function is to be set by entering into Setting MODE 1 group but if selecting LoC2 or LoC3 on Lock function parameter
- and entering into Setting MODE 1 group, it will indicate Lock function parameter only.

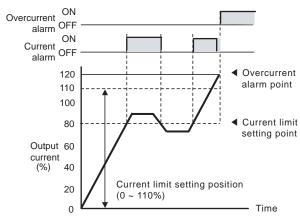
Over current generation and alarm

- Set over current alarm value[o[-u]
- It sets over current alarm value in the range of 0.0~120.0% of rated current.
- ② Over current alarm delayed time[o[L]
- After reaching to over current alarm value by setting time in the range of 0~100 sec. and passing delayed time, over current alarm will be operated
- 3 When over current alarm is on, the condition of instrument
- If over current alarm is on, output will be STOP and alarm will be stayed.

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- c C turns off at 0.5 sec. intervals on display and EVT lamp turns off at 0.5 sec intervals.
- If alarm output designation is non, o-C turns off on display even if alarm output is not generated.
- ④ Alarm off
- Alarm off method is converted to reapplying the electric current, RESET, STOP of power.
- S Over current alarm output recognized parameter
 : o[-A (Initial value : AL I)
- This function is to recognize 0 \sim 100% about connected load.
- Current limit[[-Lā]
- ① Current limit function (When controlling static voltage)
- Current limit function is to protect thyristor by controlling current when inrush current is using large load and especially in case of voltage feed back, because current is flowed for resistance value of load and rated current of thyristor is not over by only voltage control, it can prevent over rated current by restricting current.
 Current limit setting range : 0 ~ 110% of rated current
- ② Current alarm (When controlling the exception of static voltage)If current reaches setting current limit value, designated alarm will be on.



Current alarm

- ① Current alarm is on
- If reaching to current restricted setting value, alarm will be on.
- When generating over current alarm, the condition of instrumentEven if current alarm is on, control operation will be stayed.
- Both [-RL and indicating value turn off at 2 sec. intervals on display and EVT lamp turns off at 0.5 sec intervals.
- If alarm designation is non, [-AL turns off on display even if alarm output is not generated.
- ③ Alarm off : If current is under current restricted setting value, alarm will be off.
- (4) Current alarm output designating parameter : [-RL

(Default value : RL2)

Over Voltage generate and alarm

- 1) Set over voltage alarm value [םם-ם]
- It sets over voltage alarm value in the range of 0.0~120.0% of rated current.
- (2) Over voltage alarm delayed time[$\tt ou-t$]
- After reaching to over voltage alarm value by setting time in the range of 0~100 sec. and passing delayed time, over voltage alarm will be operated.
- ③ When over voltage alarm is on, the condition of instrument
- If over voltage alarm is on, output will be STOP and alarm will be stayed.
- ${\tt o}$ ${\tt U}$ turns off at 0.5 sec. intervals on display and EVT lamp turns off at 0.5 sec. intervals.
- If alarm output designation is NON, O-U turns off on display even if alarm output is not generated.

• Current limit[[-Lā]

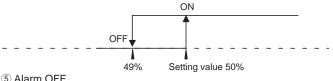
- ① Current limit function (When controlling static voltage)
- Current limit function is to protect thyristor by controlling current when inrush current is using large load and especially in case of voltage feed back, because current is flowed for resistance value of load and rated current of thyristor is not over by only voltage control, it can prevent over rated current by restricting current.
- Current limit setting range : 0 ~ 110% of rated current
- ② Current alarm (When controlling the exception of static voltage)If current reaches setting current limit value, designated alarm will be on.

Abnormal of element(Thyristor) and alarm

- ① Element(Thyristor) abnormal alarm is on
- Even if output is 0%, 10% or more of rated current is continuously flowing for over 3sec.(or over 5cycle), element(Thyristor) abnormal alarm will be on.
- ② When element(Thyristor) abnormal alarm is on, the condition of instrument
- If element(Thyristor) abnormal alarm is on, output will be STOP Mode and alarm will be stayed.
- 5 L r turns off at 0.5 sec. intervals on display and EVT lamp turns off at 0.5 sec. intervals.
- If alarm output designation is non, 5Er turns off on display even if alarm output is not generated.
- ③ Alarm off
- Alarm off method is converted to reapplying the electric current, RESET, STOP Mode of power.
- Element(Thyristor) abnormal alarm output designating parameter
 : 55 r (Default value : RL I)

Burn-out heater (load resistance) alarm

- 1 Burn-out heater alarm is on.
- When load resistance automatically recognize Full load, if setting value is staying less than connected load resistance(When setting load resistance indicating direction DOWN) for 30 sec., burn-out heater alarm will be on.
- When load resistance indicating direction is set to UP and more than setting value, alarm will be on.
- Control method is operating by Phase control regardless of control method(Phase control, Zero crossing control
- For suitable operation, it needs load current of control output(phase control or cycle control) of 10% and rated current over 30%.
- 2 Burn-out heater alarm setting parameter(HB-V)
- Setting range : 10 ~ 500%
- ③ When burn-out heater alarm is on, the condition of instrument.
- Even if burn-out heater alarm is on, control operation will be stayed.
- H-BY turns off at 2 sec intervals on display and EVT lamp turns off at 0.5 sec intervals.
- If alarm output designation is NON, H-BY turns off on display even if alarm output is not generated.
- ④ Burn-out heater alarm hysteresis.
- When burn-out heater alarm is on, the interval of ON/OFF will be fixed to 1%.
- Ex) When burn-out heater alarm setting value is 50%, the point of alarm ON:50%, the point of alarm OFF:49%.



- If it is less than burn-out heater setting value, alarm will be
- automatically off.
- (6) Burn-out heater alarm output designating parameter : Hb-R (Initial value : RL2)



DPU Sereies(但Phase))1深圳 0510-8115793Digital Power Thyristor Unit

Summary of the type of alarm

Type of alarm	Display	When alarm on, operation of instrument	Alarm off	
Over current	o-C			
Over voltage	0-0		 Reapplying an electric power 	
Burn-out fuse	FUSE ^{**1}	Output STOP (SCR OFF)	RESET(RET KEY) Conversion to	
Heat sink over temperature	EERP	, , , , , , , , , , , , , , , , , , ,	STOP Mode	
Abnormal element	56r ^{%1}			
Current alarm	C-AL	Operation is	When returning, automatic off in	
Burn-out heater alarm	Н-РҚ	stayed	setting range	

When burn-out and abnormal element, if alarm off is not possible by reapplying of electric power, refer to[10.Maintenance].

A
Recorders
В
Indicators
С
Converters
D
Controllers
Е
Thyristor Units
F
Pressure Transmitters

G Temperature Transmitters

DPU Series (1Phase)

DPU Series (3Phase)

DIgital Power Thyristor Unit

AUTONICS 奥托尼克斯热线 4006-022-002 价格表 PRICE LIST

现货在线查询 <u>www.omrons.com</u> Autonics 代理商 <u>www.shuntu.net</u> 010-68008 911 北京 0755-83656701 深圳 Autonics@ymail.com 0510-81157933 江苏省无锡

Konics 电源晶闸管整流器型号: Konics Digital Power Thyristor Unit 进口功率闸流管整流器 Konics 电源晶闸管整流器 电源可控硅整流器单元 DPU11A-025A: DPU11A-040A: DPU11A-050A: DPU11A-070A: DPU12A-025A; DPU12A-040A; DPU12A-050A; DPU12A-070A; DPU13A-025A; DPU13A-040A; DPU13A-050A; DPU13A-070A; DPU13A-025A; DPU14A-040A; DPU14A-050A; DPU14A-070A; DPU11A-025R; DPU11A-040R; DPU11A-050R; DPU11A-070R; DPU12A-025R; DPU12A-040R; DPU12A-050R; DPU12A-070R; DPU13A-025R; DPU13A-040R; DPU13A-050R; DPU13A-070R; DPU13A-025R; DPU14A-040R; DPU14A-050R; DPU14A-070R; DPU11A-025D; DPU11A-040D; DPU11A-050D; DPU11A-070D; DPU12A-025D; DPU12A-040D; DPU12A-050D; DPU12A-070D; DPU13A-025D; DPU13A-040D; DPU13A-050D; DPU13A-070D; DPU13A-025D; DPU14A-040D; DPU14A-050D; DPU14A-070D; DPU11A-025N; DPU11A-040N; DPU11A-050N; DPU11A-070N; DPU12A-025N; DPU12A-040N; DPU12A-050N; DPU12A-070N; DPU13A-025N; DPU13A-040N; DPU13A-050N; DPU13A-070N; DPU13A-025N; DPU14A-040N; DPU14A-050N; DPU14A-070N; DPU11B-080A; DPU11B-100A; DPU11B-120A; DPU12B-080A; DPU12B-100A; DPU12B-120A; DPU13B-080A; DPU13B-100A; DPU13B-120A; DPU13B-080A; DPU14B-100A; DPU14B-120A; DPU11B-080R; DPU11B-100R; DPU11B-120R; DPU12B-080R; DPU12B-100R; DPU12B-120R; DPU13B-080R; DPU13B-100R; DPU13B-120R; DPU13B-080R; DPU14B-100R; DPU14B-120R; DPU11B-080D; DPU11B-100D; DPU11B-120D; DPU12B-080D; DPU12B-100D; DPU12B-120D; DPU13B-080D; DPU13B-100D; DPU13B-120D; DPU13B-080D; DPU14B-100D; DPU14B-120D; DPU11B-080N; DPU11B-100N; DPU11B-120N; DPU12B-080N; DPU12B-100N; DPU12B-120N; DPU13B-080N; DPU13B-100N; DPU13B-120N; DPU13B-080N: DPU14B-100N; DPU14B-120N; DPU11B-150A; DPU11B-180A; DPU11B-200A; DPU12B-150A; DPU12B-180A; DPU12B-200A; DPU13B-150A; DPU13B-180A; DPU13B-200A; DPU13B-150A; DPU14B-180A; DPU14B-200A; DPU11B-150R; DPU11B-180R; DPU11B-200R; DPU12B-150R; DPU12B-180R; DPU12B-200R; DPU13B-150R; DPU13B-180R; DPU13B-200R; DPU13B-150R; DPU14B-180R; DPU14B-200R; DPU11B-150D; DPU11B-180D; DPU11B-200D; DPU12B-150D; DPU12B-180D; DPU12B-200D; DPU13B-150D; DPU13B-180D; DPU13B-200D; DPU13B-150D; DPU14B-180D; DPU14B-200D; DPU11B-150N; DPU11B-180N; DPU11B-200N; DPU12B-150N; DPU12B-180N; DPU12B-200N; DPU13B-150N; DPU13B-180N; DPU13B-200N; DPU13B-150N; DPU14B-180N; DPU14B-200N;

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DPU11C-250A; DPU11C-350A; DPU12C-250A; DPU12C-350A; DPU13C-250A; DPU13C-350A; DPU13C-250A; DPU14C-350A; DPU11C-250R; DPU11C-350R; DPU12C-250R; DPU12C-350R; DPU13C-250R; DPU13C-350R; DPU13C-250R; DPU14C-350R; DPU11C-250D; DPU11C-350D; DPU12C-250D; DPU12C-350D; DPU13C-250D; DPU13C-350D; DPU13C-250D; DPU14C-350D; DPU11C-250N; DPU11C-350N; DPU12C-250N; DPU12C-350N; DPU13C-250N; DPU13C-350N; DPU13C-250N; DPU14C-350N;

DPU11D-400A; DPU11D-500A; DPU11D-600A; DPU12D-400A; DPU12D-500A; DPU12D-600A; DPU13D-400A; DPU13D-500A; DPU13D-600A; DPU13D-400A; DPU14D-500A; DPU14D-600A; DPU11D-400R; DPU11D-500R; DPU11D-600R; DPU12D-400R; DPU12D-500R; DPU12D-600R; DPU13D-400R; DPU13D-500R; DPU13D-600R; DPU13D-400R; DPU14D-500R; DPU14D-600R; DPU11D-400D; DPU11D-500D; DPU11D-600D; DPU12D-400D; DPU12D-500D; DPU12D-600D; DPU13D-400D; DPU13D-500D; DPU13D-600D; DPU13D-400D; DPU14D-500D; DPU14D-600D; DPU11D-400N; DPU11D-500N; DPU11D-600N; DPU12D-400N; DPU12D-500N; DPU13D-600N; DPU13D-400N; DPU13D-500N; DPU13D-600N; DPU13D-400N; DPU14D-500N; DPU14D-600N;

DPU12E-750A; DPU12E-900A;
DPU13E-750A; DPU14E-900A;
DPU12E-750R; DPU12E-900R;
DPU13E-750R; DPU14E-900R;
DPU12E-750D; DPU12E-900D;
DPU13E-750D; DPU14E-900D;
DPU12E-750N; DPU12E-900N;
DPU13E-750N; DPU14E-900N;